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SOVIET ALUMINUM INDUSTRY  
REQUIRES NEW SOURCES OF RAW MATERIALS

LOCAL RAW MATERIAL NEEDED FOR ALUMINUM PLANTS -- Yerevan, Kommunist, 12 Apr 52

The Dneprovskiy Aluminum Plant in Dnepropetrovsk began to operate in 1933, the Tikhvin Alumina Plant in 1938, and the Ural Aluminum Plant in 1939. The latter operates on Ural bauxite, discovered in 1931 by the geologist N. A. Karzhavin. The USSR has created an extensive aluminum industry, which is ahead of a number of capitalist countries. The development of this industry depends on a large supply of cheap electric power and high-quality raw material. To produce one ton of aluminum, 1.95 ton of alumina, 0.1 ton of fluorides, 0.7 ton of carbon electrodes, and up to 20,000 kilowatt-hours of electric power are required.

The postwar Five-Year Plan, which has been exceeded considerably, provided for construction of a number of new aluminum plants in many parts of the USSR. Some of them are operating on raw material shipped from the Urals and other places. It is very important to provide the aluminum plants with local raw material. Soviet scientists are now working on this problem. In addition to bauxite, nepheline can also be used as a complex aluminum ore, as well as other aluminum-bearing ores.

DISCOVER MINERAL DEPOSITS FOR ALUMINUM INDUSTRY -- Tbilisi, Zarya Vostoka, 29 Mar 52

The Institute of Geology and Mineralogy, Academy of Sciences Georgian SSR, has been studying various mineral deposits and has discovered large accumulations of a mineral which serves as a raw material for the aluminum industry. Mineralogical and geochemical studies of certain polymetallic deposits have been made. The 1952 plan in this field has been prepared in cooperation with representatives of geological and production organizations of the Georgian SSR.

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